

Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-53. (cancelled)

54. (original) A method for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having an inlet control device for controlling flow entering the manifold, the method comprising:

    determining a desired engine output;

    calculating a desired cylinder charge based on said desired engine output;

    generating an inlet control device set-point based on said desired cylinder charge;

    generating an inlet control device set-point based on manifold pressure; and

    controlling the outlet control device based on said outlet control device set-point and the inlet control device based on said inlet control device set-point.

55. (original) A method for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having an electronically controlled throttle for controlling flow entering the manifold, the method comprising:

determining a desired engine output;

calculating a desired cylinder charge based on said desired engine output;

generating an outlet control device set-point based on said desired cylinder charge;

generating a target throttle position based at least on manifold pressure; and

controlling the outlet control device based on said outlet control device set-point and the electronically controlled throttle based on said target throttle position.

56-62. (cancelled)

63. (new) The method of claim 54, wherein the desired cylinder charge is cylinder air charge.

64. (new) The method of claim 54, wherein the desired engine output is desired torque.

65. (new) The method of claim 64, wherein the desired torque is based on pedal position.

66. (new) The method of claim 55, wherein the desired cylinder charge is cylinder air charge.

67. (new) The method of claim 55, wherein the desired engine output is desired torque.

68. (new) The method of claim 67, wherein the desired torque is based on pedal position.

69. (new) A method for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having a variable valve lift mechanism for controlling flow entering the manifold, the method comprising:

    determining a desired engine output;

    calculating a desired cylinder charge based on said desired engine output;

    generating an inlet control device set-point based on said desired cylinder charge;

    generating an inlet control device set-point based on manifold pressure; and

    controlling the variable valve lift mechanism based on said outlet control device set-point and the variable valve lift mechanism based on said inlet control device set-point.

70. (new) The method of claim 55, wherein the desired engine output is desired torque.

71. (new) The method of claim 67, wherein the desired torque is based on pedal position.